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Mighty Max Battery YTX5L-BSGEL12V1A680

Mighty Max Battery YTX5L-BS Gel Replacement Battery and 12V 1Amp Charger User Manual

MODEL: YTX5L-BSGEL12V1A680

1. Introduction

Thank you for choosing the Mighty Max Battery YTX5L-BS Gel Replacement Battery and 12V 1Amp Charger. This manual provides essential information for the safe and effective use, installation, and maintenance of your new battery and charger. Please read this manual thoroughly before use and retain it for future reference.

2. Safety Information

WARNING: Improper handling of batteries can lead to serious injury or damage. Always follow safety guidelines.

- Always wear eye protection and protective clothing when handling batteries.
- Keep batteries away from open flames, sparks, and heat sources. Batteries can produce explosive gases.
- Ensure adequate ventilation when charging or using batteries in enclosed spaces.
- Do not short-circuit battery terminals.
- Keep out of reach of children.
- In case of contact with battery acid, flush immediately with water and seek medical attention.
- Dispose of batteries according to local regulations.

3. Product Overview

The Mighty Max YTX5L-BS GEL battery is a 12V 4AH 80 Cold Cranking Amps (CCA) Gel (Maintenance Free) battery designed for powersports applications. It is paired with a Mighty Max 12 Volt 1 Amp Charger and Maintainer for optimal performance and longevity.

Key Features:

- **GEL Technology:** Factory activated, maintenance-free, no acid pack needed. Offers prolonged life and consistent power.

- **Deep Cycle Design:** True deep cycle battery, mountable in any position.
- **Durability:** Resists shocks and vibration, providing high performance in various temperatures.
- **Dimensions:** 4.40 inches x 2.75 inches x 4.25 inches.
- **Polarity:** Negative on left, Positive on right.
- **Included Charger:** Mighty Max 12 Volt 1 Amp Charger and Maintainer.

Internal Configuration

The battery features a sealed safety valve to relieve excess pressure, copper and silver plated terminals, and an absorbent glass mat (AGM) separator to prevent fluid loss and eliminate the need for refilling. The high-impact case provides strength and durability.



MIGHTY MAX BATTERY
RY I I FKA

Mighty Max Battery

YTX5L-BSGEL 12V 4AH GEL Battery

- YTX5L-BS GEL 12V 4AH 80 CCA Battery
- Dimensions: 4.40 x 2.75 x 4.25 inches
- Factory activated GEL battery
- Rechargeable battery mounted in any position

Are You Powered To The Max?

The image shows a blue Mighty Max battery with a clear top cover revealing internal components. The battery label includes the following text: 'MIGHTY MAX BATTERY', 'YTX5L-BSGEL 12 VOLT 4AMP 80CCA', 'HIGH-RATE GEL SERIES', 'RUGGED POWER SOURCE BATTERY', 'MF MAINTENANCE FREE', 'NON-SPILLABLE', and a 'GEL' logo. A warning label is also visible at the bottom of the battery.

Figure 1: Internal components of the Mighty Max GEL battery.

GEL Series Highlights

Mighty Max GEL batteries are engineered for unmatched performance, durability, and safety, making them suitable for rugged environments and ensuring consistent, long-lasting power.



2.75in
(6.99cm)



4.25in
(10.80cm)
Including Terminal



4.40in
(11.18cm)

Figure 2: Key highlights of the Mighty Max GEL Series batteries.

Included 12V 1Amp Charger

The package includes a Mighty Max 12 Volt 1 Amp Charger and Maintainer, designed to keep your battery optimally charged and extend its lifespan.

GEL



MIGHTY MAX
BATTERY

SERIES

Key Highlights:



Unmatched Performance:

Our GEL batteries hold their charge longer with a slower self-discharge rate, ensuring consistent, long-lasting power.



Durability:

Mighty Max GEL batteries deliver reliable performance in extreme temperatures, ensuring consistent power across a wide range of climates.



Rugged and Safe by Design:

Our GEL batteries feature a thick, non-spillable gel paste that minimizes leak risks and enhances durability, making them ideal for rugged environments.



Customer Satisfaction:

With a proven commitment to excellence, Mighty Max batteries will not only meet, but exceed your expectations.



Figure 3: Mighty Max 12 Volt 1 Amp Charger and Maintainer.

Product Video: YTX5L-BS Specifics

Your browser does not support the video tag.

Video 1: This video provides an overview of the Mighty Max YTX5L-BS battery, highlighting its 80 CCA, sealed AGM design, and suitability for various powersports applications like snowmobiles, personal watercraft, dirt bikes, and road motorcycles.

4. Setup

Initial Inspection:

Upon receiving your Mighty Max battery, inspect it for any signs of physical damage. Ensure the terminals are clean and free of corrosion. The battery is factory-activated and maintenance-free, requiring no initial acid filling.

Battery Installation:

1. Ensure the vehicle's ignition is off and remove the old battery.
2. Clean the battery tray and cable terminals to ensure good electrical contact.

- Place the new Mighty Max YTX5L-BS battery securely in the battery compartment. The battery can be mounted in any position due to its sealed GEL design.
- Connect the positive (+) terminal first, then the negative (-) terminal. Ensure connections are tight and secure.
- Verify correct polarity: Negative on the left, Positive on the right.

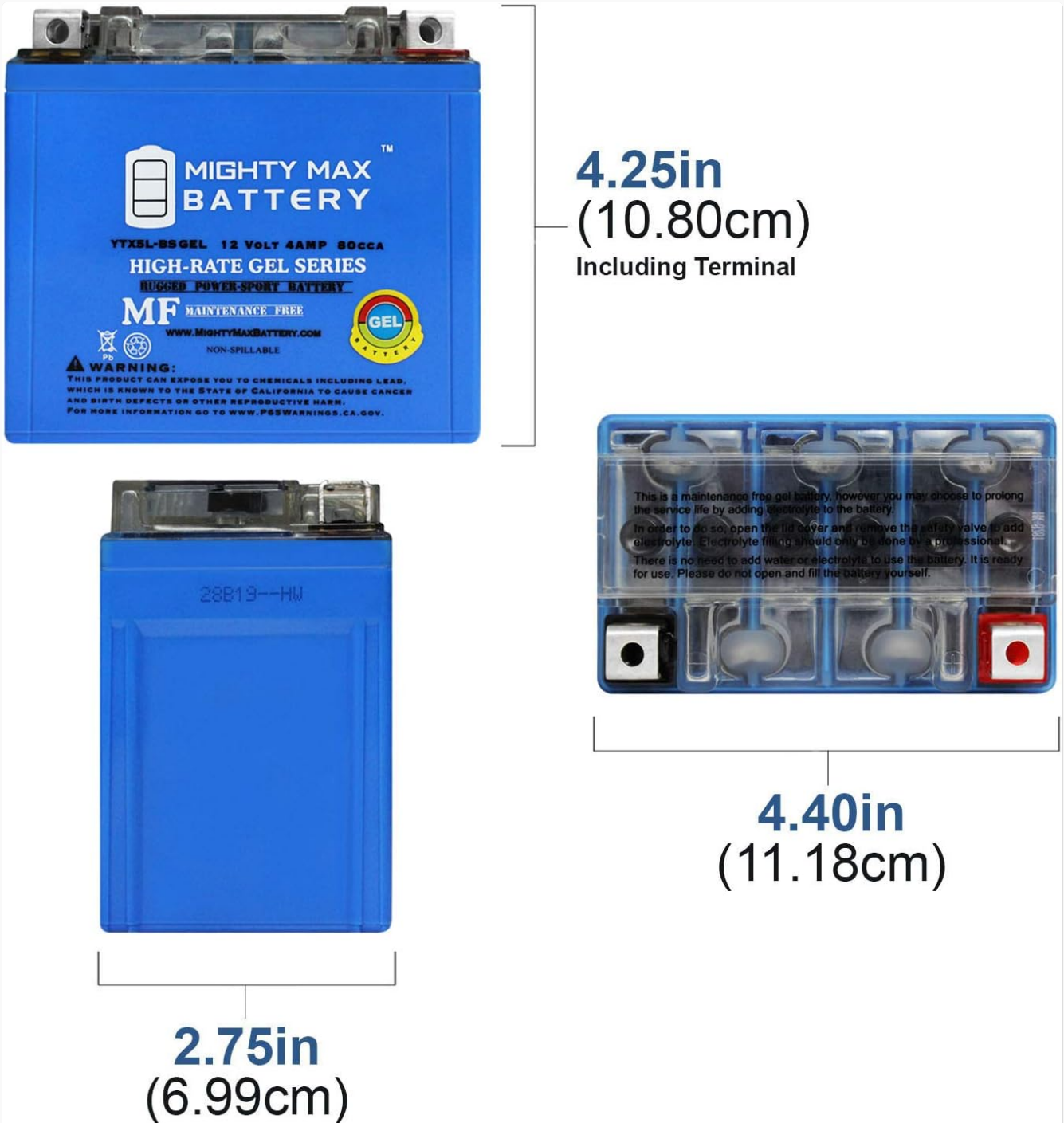


Figure 4: Securely connecting battery terminals.

5. Operating Instructions

The Mighty Max YTX5L-BS battery is designed to provide reliable starting power for your powersports vehicle. Once installed, the battery is ready for use. For optimal performance, especially after periods of inactivity, ensure the battery is fully charged using the included 12V 1Amp charger.

Using the 12V 1Amp Charger:

- Connect the charger's positive (+) lead (red) to the battery's positive (+) terminal.

2. Connect the charger's negative (-) lead (black) to the battery's negative (-) terminal.
3. Plug the charger into a standard AC power outlet.
4. Allow the charger to operate until the battery is fully charged. The charger will automatically switch to maintenance mode to prevent overcharging.
5. Once charging is complete, unplug the charger from the AC outlet first, then disconnect the negative (-) lead, followed by the positive (+) lead from the battery.

6. Maintenance

While the Mighty Max GEL battery is maintenance-free, following these guidelines will help ensure its longevity and performance:

- **Regular Inspection:** Periodically check the battery for any physical damage, cracks, or loose connections.
- **Terminal Cleaning:** Keep battery terminals clean and free of corrosion. Use a wire brush and a mixture of baking soda and water to clean any corrosion, then rinse with clean water and dry thoroughly.
- **Charge Maintenance:** If the vehicle is stored for extended periods, use the included 12V 1Amp charger/maintainer to keep the battery fully charged. This prevents sulfation and extends battery life.
- **Storage:** Store the battery in a cool, dry place when not in use. Ensure it is fully charged before storage.

7. Troubleshooting

If you encounter issues with your Mighty Max battery, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Engine does not crank or cranks slowly.	Low battery charge; corroded or loose terminals; faulty starter or alternator.	Charge the battery with the 12V 1Amp charger. Clean and tighten terminals. Test starter and alternator.
Battery not holding a charge.	Deep discharge; internal battery fault; faulty charging system.	Fully charge the battery. If issue persists, have the battery and vehicle's charging system tested by a professional.
Charger indicator light not working.	Charger not plugged in; faulty outlet; charger malfunction.	Check power connection. Try a different outlet. If still not working, the charger may be faulty.

If troubleshooting steps do not resolve the issue, please contact Mighty Max Battery customer support.

8. Specifications

Detailed specifications for the Mighty Max YTX5L-BS GEL battery and included charger:

Feature	Specification
Model Number	YTX5L-BSGEL12V1A680
Voltage	12 Volts
Capacity	4 AH
Cold Cranking Amps (CCA)	80 CCA

Feature	Specification
Battery Type	GEL (Maintenance Free)
Dimensions (L x W x H)	4.40 inches x 2.75 inches x 4.25 inches
Item Weight	6 pounds
Battery Cell Composition	Lead Acid
Charger Output	12V 1Amp
Vehicle Service Type	ATV, Personal Watercraft, Motorcycle, Snowmobiles



Figure 5: Detailed technical specifications and performance charts.



Figure 6: Mighty Max YTX5L-BS battery dimensions.

9. Warranty and Support

Mighty Max Battery products are designed for quality and reliability. For specific warranty details, please refer to the warranty information provided with your purchase or visit the official Mighty Max Battery website. For technical support, troubleshooting assistance, or any questions regarding your product, please contact Mighty Max Battery customer service.

General Product Information Video:

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Video 2: This video showcases the general features of Mighty Max batteries, including shock and vibration resistance, quick recharging, various terminal types, mounting versatility, and long-lasting performance in diverse temperatures. It also demonstrates battery installation in a motorcycle.